

Motor data sheet

IEC LV MOTORS

M2BAX 250SMA 4

| Definition | Data | Unit | Remarks |
|---|-----------------------|------------------------|-----------------------------|
| Product code | 3GBA252210-**F | | |
| Voltage code | D | | |
| Type/Frame | M2BAX 250SMA 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | Acc. to IEC 60034-30-1:2014 |
| Rated output P_N | 55 | kW | |
| Rated voltage U_N | 400 | V | ± 5 % (IEC 60034-1) |
| Rated frequency f_N | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed n_N | 1479 | r/min | |
| Rated current I_N | 102 | A | |
| Starting current I_s/I_N | 10.1 | | |
| Nominal torque T_N | 351.77 | Nm | |
| Locked rotor torque T_l/T_N | 4.35 | | |
| Maximum torque T_b/T_N | 3.43 | | |
| Efficiency - full load 100% | 94.6 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 94.7 | % | |
| Efficiency - 50% | 94.0 | % | |
| Power factor - full load 100% | 0.83 | | |
| Bearing DE/NDE | 6215-2Z/C3 6212-2Z/C3 | | |
| Sound pressure level L_{pA} dB | 74.3 | dB(A) | +3dB(A) |
| Moment of inertia $J = \frac{1}{4} GD^2$ kgm ² | 0.62 | kg-m ² | |
| Weight | 386 | kg | |
| Motor losses with VSD supply | Efficiency % | Losses in Watts | Relative losses % |
| Speed 90% Torque 100% | 94.1 | 3104 | 5.6 |
| Speed 50% Torque 100% | 91.7 | 2489 | 4.5 |
| Speed 90% Torque 50% | 93.5 | 1721 | 3.1 |
| Speed 50% Torque 50% | 92.3 | 1147 | 2.1 |
| Speed 25% Torque 100% | 85.8 | 2276 | 4.1 |
| Speed 50% Torque 25% | 89.8 | 781 | 1.4 |
| Speed 25% Torque 25% | 85.8 | 569 | 1.0 |

All data subject to tolerances in accordance with IEC. Data subject to changes.